

GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s):

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Sean A. Johnston
Vice President
GENENTECH, INC.
1 DNA Way
South San Francisco, California
94080-4990 US

hereby appoints (appoint) the following person as:



agent



common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

AGARWAL, Atulya R.
BARNES, Elizabeth M.
EVANS, David E.
CARPENTER, David A.
CONLEY, Deirdre L.
CUI, Steven X.

HASAK, Janet E.
JOHNSTON, Sean A.
KRESNAK, Mark T.
KUBINEC, Jeffrey S.
LEE, Wendy M.
MARSCHANG, Diane L.

NAIK, Paul
SCHWARTZ, Timothy R.
SHIN, Elinor K.
SVOBODA, Craig G.
TAN, Lee K.
YEUNG, Bonny G.
All of: GENENTECH, INC
1 DNA Way
South San Francisco, California
94080-4990 US

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with any and all international applications filed by the undersigned with the following Office

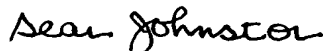
United States Patent and Trademark Office

as receiving Office

and to make or receive payments on behalf of the undersigned.

Signatures of the applicant(s)

(where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):



Sean A. Johnston

Date: 19 February 2003

GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s)

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

CHIU, Henry

hereby appoints (appoint) the following person as:



agent



common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

AGARWAL, Atulya R.
BARNES, Elizabeth M.
EVANS, David E.
CARPENTER, David A.
CONLEY, Deirdre L.
CUI, Steven X.

HASAK, Janet E
JOHNSTON, Sean A.
KRESNAK, Mark T.
KUBINEC, Jeffrey S
LEE, Wendy M.
MARSCHANG, Diane L.

NAIK, Paul
SCHWARTZ, Timothy R.
SHIN, Elinor K.
SVOBODA, Craig G.
TAN, Lee K.
YEUNG, Bonny G.
All of: GENENTECH, INC
1 DNA Way
South San Francisco, California
94080-4990 US

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with any and all international applications filed by the undersigned with the following Office

United States Patent and Trademark Office

as receiving Office

and to make or receive payments on behalf of the undersigned.

Signatures of the applicant(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):

CHIU, Henry



Date:

9/3/2003

GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s):

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

WU, Thomas D.

hereby appoints (appoint) the following person as:



agent



common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

AGARWAL, Atulya R.
BARNES, Elizabeth M.
EVANS, David E.
CARPENTER, David A.
CONLEY, Deirdre L.
CUI, Steven X.

HASAK, Janet E
JOHNSTON, Sean A.
KRESNAK, Mark T.
KUBINEC, Jeffrey S
LEE, Wendy M.
MARSCHANG, Diane L.

NAIK, Paul
SCHWARTZ, Timothy R.
SHIN, Elinor K.
SVOBODA, Craig G.
TAN, Lee K.
YEUNG, Bonny G.
All of: GENENTECH, INC
1 DNA Way
South San Francisco, California
94080-4990 US

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with any and all international applications filed by the undersigned with the following Office

United States Patent and Trademark Office

as receiving Office

and to make or receive payments on behalf of the undersigned.

Signatures of the applicant(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):

WU, Thomas D.



Date:

4 September 2003

GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s):

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

WOOD, William I.

hereby appoints (appoint) the following person as:



agent



common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

AGARWAL, Atulya R.
BARNES, Elizabeth M.
EVANS, David E.
CARPENTER, David A.
CONLEY, Deirdre L.
CUI, Steven X.

HASAK, Janet E
JOHNSTON, Sean A.
KRESNAK, Mark T.
KUBINEC, Jeffrey S
LEE, Wendy M.
MARSCHANG, Diane L.

NAIK, Paul
SCHWARTZ, Timothy R.
SHIN, Elinor K.
SVOBODA, Craig G.
TAN, Lee K.
YEUNG, Bonny G.
All of: GENENTECH, INC
1 DNA Way
South San Francisco, California
94080-4990 US

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with any and all international applications filed by the undersigned with the following Office

United States Patent and Trademark Office

as receiving Office

and to make or receive payments on behalf of the undersigned.

Signatures of the applicant(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):

WOOD, William I.



Date:

9/4/03

GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s):

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

WILLIAMS, P. Mickey

hereby appoints (appoint) the following person as:



agent



common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

AGARWAL, Atulya R.
BARNES, Elizabeth M.
EVANS, David E.
CARPENTER, David A.
CONLEY, Deirdre L.
CUI, Steven X.HASAK, Janet E.
JOHNSTON, Sean A.
KRESNAK, Mark T.
KUBINEC, Jeffrey S.
LEE, Wendy M.
MARSCHANG, Diane L.NAIK, Paul
SCHWARTZ, Timothy R.
SHIN, Elinor K.
SVOBODA, Craig G.
TAN, Lee K.
YEUNG, Bonny G.
All of: GENENTECH, INC
1 DNA Way
South San Francisco, California
94080-4990 US

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with any and all international applications filed by the undersigned with the following Office

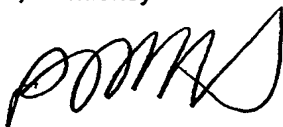
United States Patent and Trademark Office

as receiving Office


and to make or receive payments on behalf of the undersigned.

Signatures of the applicant(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):

WILLIAMS, P. Mickey



Date:

 9/05/03

PCT

PCT/US03/35253

GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s)

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

CLARK, Hilary

hereby appoints (appoint) the following person as:



agent



common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

AGARWAL, Atulya R.
BARNES, Elizabeth M.
EVANS, David E.
CARPENTER, David A.
CONLEY, Deirdre L.
CUI, Steven X.

HASAK, Janet E.
JOHNSTON, Sean A.
KRESNAK, Mark T.
KUBINEC, Jeffrey S.
LEE, Wendy M.
MARSCHANG, Diane L.

NAIK, Paul
SCHWARTZ, Timothy R.
SHIN, Elinor K.
SVOBODA, Craig G.
TAN, Lee K.
YEUNG, Bonny G.
All of: GENENTECH, INC
1 DNA Way
South San Francisco, California
94080-4990 US

to represent the undersigned before



all the competent International Authorities



the International Searching Authority only



the International Preliminary Examining Authority only

in connection with any and all international applications filed by the undersigned with the following Office

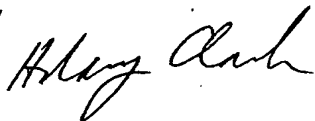
United States Patent and Trademark Office

as receiving Office

and to make or receive payments on behalf of the undersigned.

Signatures of the applicant(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):

CLARK, Hilary



Date:

9/4/03

Special Law Office, TC 1600

PCT/4803/35268

Chapter I

Sequence letter 225 sent by _____ Date _____

Lack of Unity ✓ 206 _____ 299

Reviewed by paralegal _____ Date _____

Reviewed by SPRE P. Lewis Date 3-13-07

Actions:

210/220/203 reviewed by paralegal _____ Date _____

203 and Partial search reviewed by SPRE _____ Date _____

Protest reviewed by _____ Date _____

Misc. action reviewed by paralegal _____ Date _____

Chapter II

Lack of Unity _____ 405 _____ 499

Reviewed by paralegal _____ Date _____

Reviewed by SPRE _____ Date _____

Actions:

408 reviewed by paralegal _____ Date _____

416/409 reviewed by paralegal _____ Date _____

Protest reviewed by _____ Date _____

Misc. action reviewed by paralegal _____ Date _____